

CCTTTCCATAGAGAACAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGCCCAGTGTTCCTCCT  
 CATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA  
 GGATCCCTTCTTAAACAACTGGAGACGTAATAACCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATAT  
 TTAACAGAAAACCACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT  
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTTGTAGGTACTGACAAGATGGAAGTC  
 AACATTTCAATGCCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT  
 CATAGTGGTTCTCTTTATAACCTTTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCTA  
 GATGGCACACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA  
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGTTGGTTTCTTTGCAAATTAGTTCACATAATTG  
 CAAACATAAACCTTTTTGTAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCC  
 AGTATGGTCTCAGAATCACCGAAGTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTG  
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG  
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT  
 CATTATTGGATTCAGCATGCCATGTCTTTCATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA  
 GGCTTTGTGAATTCCAGTCGTCCTTTACGTGTCCTCACTGCTGTAGCGATTTCTTCTTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTTCATATGTTGGTTAACCACG  
 AAATACCTTGCTTCTTTAACAGCTGCCTCAACCCAATACTCTATGTATTCTTGGGTGAGGAATTCAGAGACAGA  
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGA  
 GCACTGACACAGACAGCAACTTGTCTTCATGAACTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT  
 GGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA  
 GAATCTCTCTGATTCTGATTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFDSTSSVLWILSLVVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALESLSFMV  
 TLPLHIISMVMRGKWLFGWFLCKLVHIIANINLFVSIFLITLIAMDRICVLCVPVWSQNHRTVSLARKVVLGAWIF  
 ALLLTLPHFLFLTTRDARGDVYCISKFESWVATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI  
 CRRGFVNSSRPLRVLTAVAISFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNSCLNPILYVFLGQEF  
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAATTGGC  
 CCAGTGTTCTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC  
 AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT  
 AATAACCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC  
 CACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG  
 AGGTAGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTTATG  
 GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT  
ATGATTCTACCACCTCAAGTGTTCTATGGATCCTCTCATTAGTGGTTCTCTTTATAACCT  
TTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCAGATGGCAC  
ACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTA  
CTCTACCACTTCACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC  
 TTTGCAAATTAGTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA  
 CTCTTATTGCCATGGATCGCTGTATTGTGTCTGTGCCCAGTATGGTCTCAGAATCACC  
 GAACTGTGAGTCTGGCCAGAAAAGTGTTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA  
 CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA  
 TATCTAAATTTGAATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG  
 CTGCCACAGCTTCAGGAATCATCAATTTTATTATTGGATTCAGCATGCCCATGTCTTTCA  
 TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTCCA  
 GTCGTCTCTTACGTGTCCTCACTGCTGTAGCGATTTCCCTTCTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCATA  
 TGTTGGTTAACCCAGCAAATACCTTGGCTTCCCTTTAACAGCTGCCCTCAACCAATACTCT  
 ATGTATTCTCTGGGTGAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG  
 AGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGAGCACTGACACAG  
 ACAGCAACTTGTCTTCATGAACCTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC  
 CAATGGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCTTATCTTGCATGA  
 AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT

FIGURE 2A

Gene Sequence  
Structure \*

399 bp

Sequence Deleted

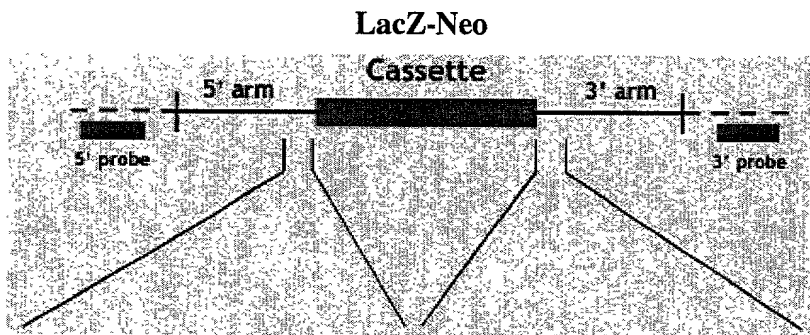
549 bp

Size of CDS: 1554 bp



Targeting Vector\*  
(genomic sequence)

Arm Length:  
5': 0.3 kb  
3': 6 kb



\* Not drawn to scale

<p>5'&gt;CATAGAATTAAGATTTCCATA GGGATATTTAACAGAAAACCAT TTACTCTATTACCCCTAGAATAGG TACTTTTTTAAAAATAGAAGGTGATG TGGGATCTGAGGTAAGGCGGGACA AGATGGAGACACATCTGAAAAATA GTTATTGTTGAAAATTTTAGGTG CTGACAAGATGGAAGTCAACATTT CAATGCCTCTG&lt;3' (SEQ ID NO:3)</p>	<p>5'&gt;CCACTGTCTCTTATCTGAACT TGGCTTTGAGTGATTTATCTTTCA TGGCTACTCTACCACTTCACATCA TCTCAATGGTCATGAGAGGAAAAT GGCTTTTTTGGTTGGTTTCTTTGCA AATTAGTTCACATAATTGCAAACA TAAACCTTTTTGTAAGTATCTTCC TAATCACTCTTATTGCCATGGATC GCTGTATTTGT&lt;3' (SEQ ID NO:4)</p>
--	--

FIGURE 2B

# Open Field Summary Data - Percent in Central

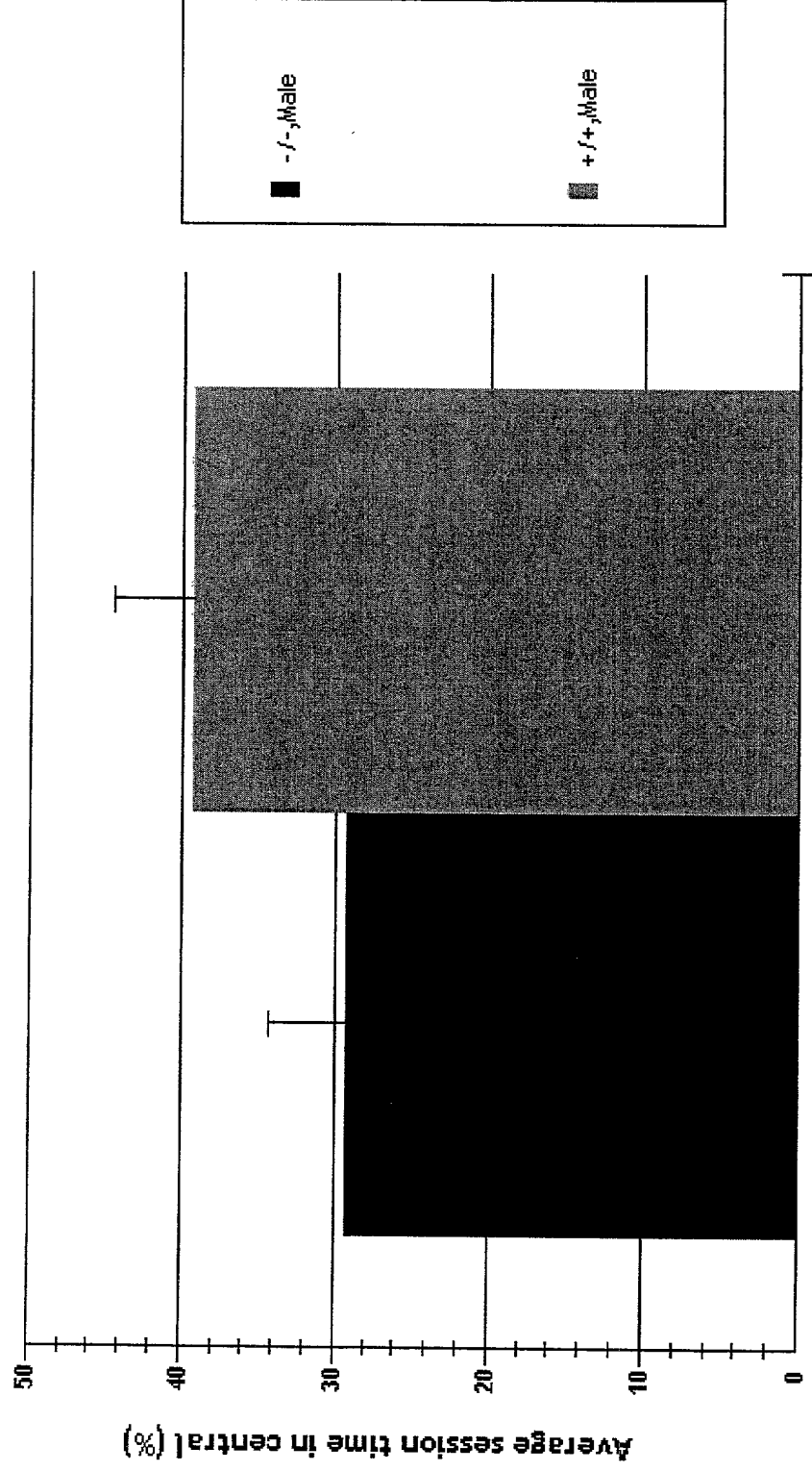


FIGURE 3

## Rotarod

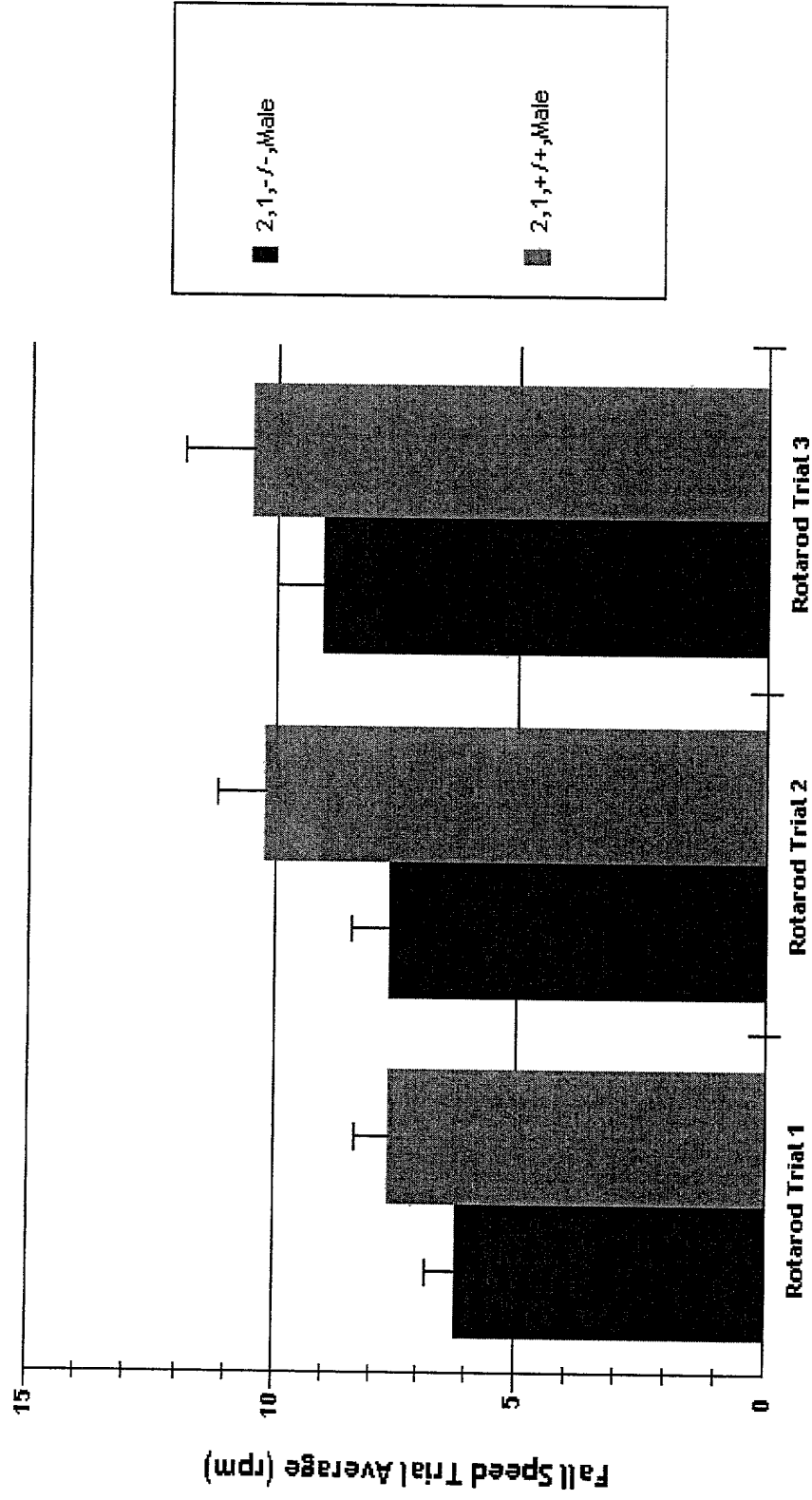


FIGURE 4

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# Metrazol

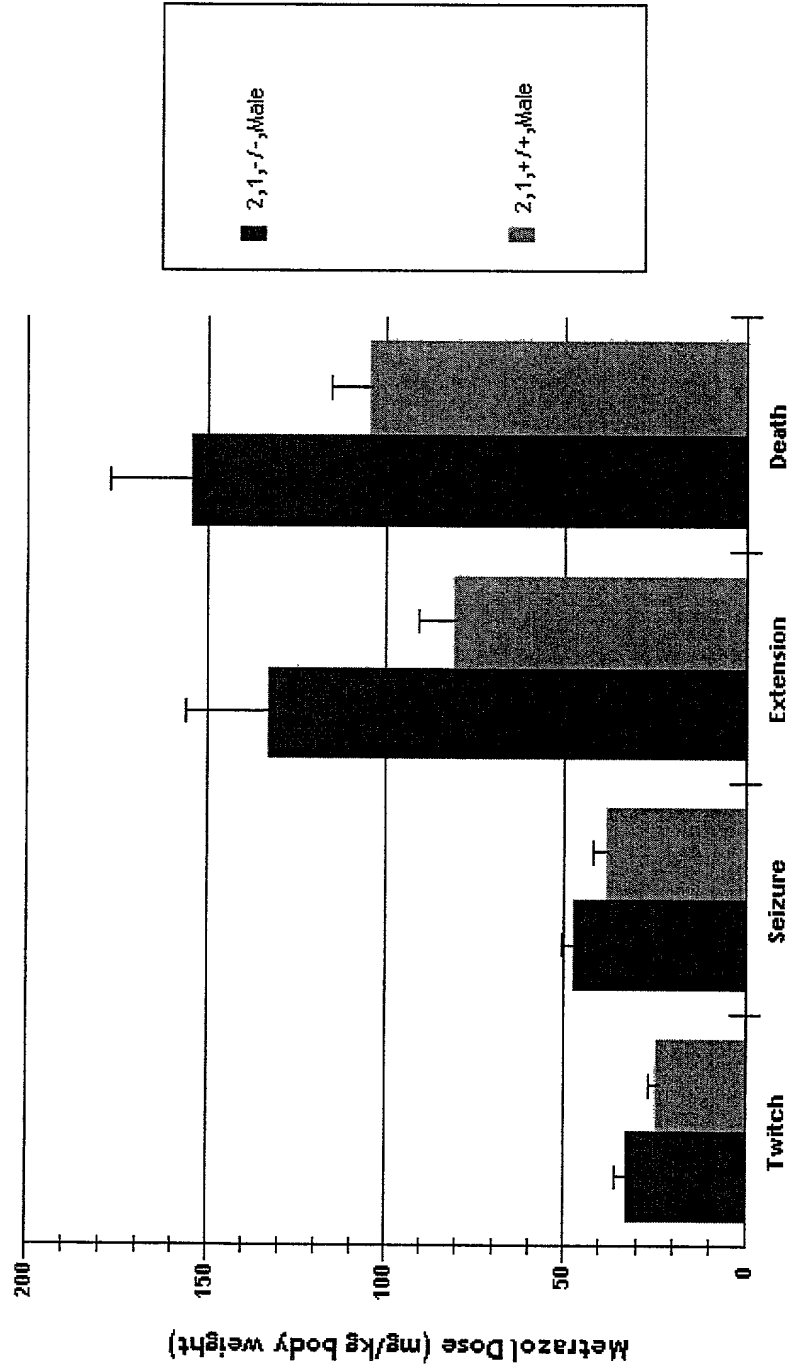


FIGURE 5